

Karen J Colley

List of Publications by Year in descending order

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31
papers

1,541
citations

361413

20
h-index

477307

29
g-index

31
all docs

31
docs citations

31
times ranked

1320
citing authors

#	ARTICLE	IF	CITATIONS
1	Golgi localization of glycosyltransferases: more questions than answers. <i>Glycobiology</i> , 1997, 7, 1-13.	2.5	287
2	Sialylation of N-glycans: mechanism, cellular compartmentalization and function. <i>Histochemistry and Cell Biology</i> , 2017, 147, 149-174.	1.7	175
3	Polysialic acid: Biosynthesis, novel functions and applications. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2014, 49, 498-532.	5.2	122
4	In Vivo Autopolysialylation and Localization of the Polysialyltransferases PST and STX. <i>Journal of Biological Chemistry</i> , 1998, 273, 34586-34593.	3.4	100
5	Hyposialylation of Integrins Stimulates the Activity of Myeloid Fibronectin Receptors. <i>Journal of Biological Chemistry</i> , 2002, 277, 32830-32836.	3.4	98
6	Unique α 2, 8-polysialylated glycoproteins in breast cancer and leukemia cells. <i>Glycobiology</i> , 1996, 6, 289-301.	2.5	79
7	Two Naturally Occurring α 2,6-Sialyltransferase Forms with a Single Amino Acid Change in the Catalytic Domain Differ in Their Catalytic Activity and Proteolytic Processing. <i>Journal of Biological Chemistry</i> , 1997, 272, 672-679.	3.4	68
8	The Minimal Structural Domains Required for Neural Cell Adhesion Molecule Polysialylation by PST/ST8Sia IV and STX/ST8Sia II. <i>Journal of Biological Chemistry</i> , 2003, 278, 30796-30805.	3.4	52
9	A Novel α -Helix in the First Fibronectin Type III Repeat of the Neural Cell Adhesion Molecule Is Critical for N-Glycan Polysialylation. <i>Journal of Biological Chemistry</i> , 2006, 281, 36052-36059.	3.4	52
10	The expression of Gal α 2,4GlcNAc α 2,6 sialyltransferase and α 2,6-linked sialoglycoconjugates in human brain tumors. <i>Acta Neuropathologica</i> , 1996, 91, 284-292.	7.7	50
11	Formation of Insoluble Oligomers Correlates with ST6Gal I Stable Localization in the Golgi. <i>Journal of Biological Chemistry</i> , 2000, 275, 13819-13826.	3.4	46
12	Identification of Sequences in the Polysialyltransferases ST8Sia II and ST8Sia IV That Are Required for the Protein-specific Polysialylation of the Neural Cell Adhesion Molecule, NCAM. <i>Journal of Biological Chemistry</i> , 2009, 284, 15505-15516.	3.4	45
13	Multiple Signals Are Required for α 2,6-Sialyltransferase (ST6Gal I) Oligomerization and Golgi Localization. <i>Journal of Biological Chemistry</i> , 2005, 280, 5423-5429.	3.4	44
14	Polysialyltransferase-1 Autopolysialylation Is Not Requisite for Polysialylation of Neural Cell Adhesion Molecule. <i>Journal of Biological Chemistry</i> , 2000, 275, 4484-4491.	3.4	43
15	The CMP-sialic Acid Transporter Is Localized in the Medial-Trans Golgi and Possesses Two Specific Endoplasmic Reticulum Export Motifs in Its Carboxyl-terminal Cytoplasmic Tail. <i>Journal of Biological Chemistry</i> , 2006, 281, 31106-31118.	3.4	42
16	Specific Amino Acids in the First Fibronectin Type III Repeat of the Neural Cell Adhesion Molecule Play a Role in Its Recognition and Polysialylation by the Polysialyltransferase ST8Sia IV/PST. <i>Journal of Biological Chemistry</i> , 2005, 280, 32340-32348.	3.4	33
17	Sequences Prior to Conserved Catalytic Motifs of Polysialyltransferase ST8Sia IV Are Required for Substrate Recognition. <i>Journal of Biological Chemistry</i> , 2012, 287, 6441-6453.	3.4	29
18	Structural Basis for the Polysialylation of the Neural Cell Adhesion Molecule. <i>Advances in Experimental Medicine and Biology</i> , 2010, 663, 111-126.	1.6	26

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19	Structure and Mutagenesis of Neural Cell Adhesion Molecule Domains. <i>Journal of Biological Chemistry</i> , 2010, 285, 27360-27371.	3.4	22
20	Sequences at the Interface of the Fifth Immunoglobulin Domain and First Fibronectin Type III Repeat of the Neural Cell Adhesion Molecule Are Critical for Its Polysialylation. <i>Journal of Biological Chemistry</i> , 2011, 286, 4525-4534.	3.4	21
21	Sequence Requirements for Neuropilin-2 Recognition by ST8SiaIV and Polysialylation of Its O-Glycans. <i>Journal of Biological Chemistry</i> , 2016, 291, 9444-9457.	3.4	19
22	The Polybasic Region of the Polysialyltransferase ST8Sia-IV Binds Directly to the Neural Cell Adhesion Molecule, NCAM. <i>Biochemistry</i> , 2017, 56, 1504-1517.	2.5	17
23	The Polysialyltransferases Interact with Sequences in Two Domains of the Neural Cell Adhesion Molecule to Allow Its Polysialylation. <i>Journal of Biological Chemistry</i> , 2013, 288, 7282-7293.	3.4	15
24	Noncatalytic Endosialidase Enables Surface Capture of Small-Cell Lung Cancer Cells Utilizing Strong Dendrimer-Mediated Enzyme-Glycoprotein Interactions. <i>Analytical Chemistry</i> , 2018, 90, 3670-3675.	6.5	14
25	Sequences from the First Fibronectin Type III Repeat of the Neural Cell Adhesion Molecule Allow O-Glycan Polysialylation of an Adhesion Molecule Chimera. <i>Journal of Biological Chemistry</i> , 2010, 285, 35056-35067.	3.4	12
26	The two rat alpha2,6-sialyltransferase (ST6Gal I) isoforms: evaluation of catalytic activity and intra-Golgi localization. <i>Glycobiology</i> , 2003, 13, 109-117.	2.5	9
27	Autopolysialylation of polysialyltransferases is required for polysialylation and polysialic acid chain elongation on select glycoprotein substrates. <i>Journal of Biological Chemistry</i> , 2018, 293, 701-716.	3.4	9
28	Nucleotide sugar transporters of the Golgi apparatus. , 2008, , 190-206.		8
29	Localization of Golgi Glycosyltransferases.. <i>Trends in Glycoscience and Glycotechnology</i> , 1997, 9, 267-282.	0.1	3
30	Drifting toward polymer perfection. <i>Nature Chemical Biology</i> , 2014, 10, 410-411.	8.0	1
31	Requirements for the Protein Specific Polysialylation of NCAM Nâ€Glycans. <i>FASEB Journal</i> , 2006, 20, A56.	0.5	0